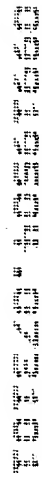


5

Sub  
aa

5

10



15

20

25

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 6750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

5           b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

10           3.     The composition of Claim 1, wherein:  
              the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5750 Daltons;

99  
cent.

a is a number such that the portion represented by polyoxyethylene constitutes approximately 10% of the compound by weight; and

15           b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

20           4.     The composition of Claim 1, wherein:  
              the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5220 Daltons;

25           a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

              b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

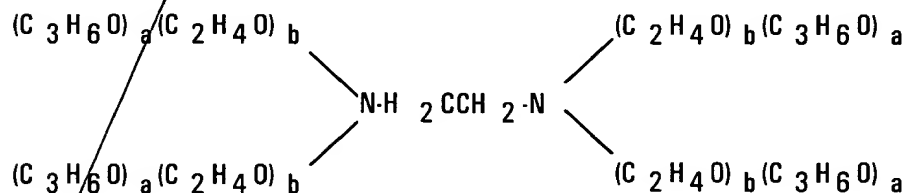
5. The composition of Claim 1, wherein the compound capable of altering nucleic acid sequence function is selected from genes, oligonucleotides, antisense oligonucleotides, triplex DNA compounds, or ribozymes.

6. The composition of Claim 1, further comprising approximately 0.1% to approximately 5% by weight of a surfactant and approximately 0.5% to approximately 5% by volume of an low molecular weight alcohol.

7. The composition of Claim 6, wherein the surfactant is Tween 80 and the alcohol is ethanol.

8. The composition of Claim 1, further comprising an expression vector, wherein the compound capable of altering nucleic acid sequence function is a nucleic acid sequence contained in the expression vector, and the expression vector is capable of expressing the nucleic acid sequence.

9. A therapeutic composition for treating a human or animal comprising,  
a compound capable of altering nucleic acid function admixed with a block copolymer, wherein the block copolymer has the following formula:



wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

5 a is a number such that the portion represented by polyoxyethylene constitutes between about 10% to about 40% of the compound by weight; and

10 b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes between about 60% and about 90% of the compound by weight.

Claim 9  
canceled

15 10. The composition of Claim 9, wherein:  
the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 6750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

20 b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

25 11. The composition of Claim 9, wherein:  
the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5750 Daltons;

30 a is a number such that the portion represented by polyoxyethylene constitutes approximately 10% of the compound by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

5

12. The composition of Claim 9, wherein:  
the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5220 Daltons;

10

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

99. Cent.

15

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

20

13. The composition of Claim 9, wherein the compound capable of altering nucleic acid sequence function is selected from genes, oligonucleotides, antisense oligonucleotides, triplex DNA compounds, or ribozymes.

25

14. The composition of Claim 9, further comprising approximately 0.1% to approximately 5% by weight of a surfactant and approximately 0.5% to approximately 5% by volume of a low molecular weight alcohol.

30

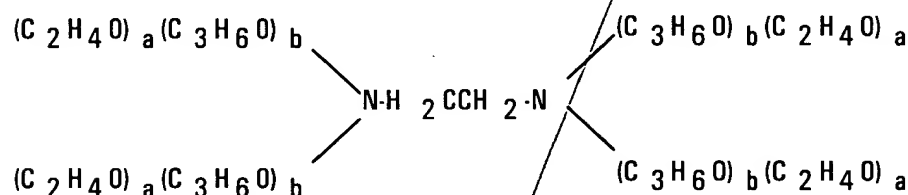
15. The composition of Claim 14, wherein the surfactant is Tween 80 and the alcohol is ethanol.

16. The composition of Claim 9, further comprising an expression vector, wherein the compound capable of altering nucleic acid sequence function is a nucleic acid sequence contained in the expression vector, and the

expression vector is capable of expressing the nucleic acid sequence.

17. A therapeutic composition for treating a human or animal comprising,

a compound capable of altering nucleic acid function admixed with a block copolymer, wherein the block copolymer has the following formula:



wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes between about 5% to about 20% of the compound by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes between about 80% and about 95% of the compound by weight.

18. The composition of Claim 17, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 6750 Daltons;

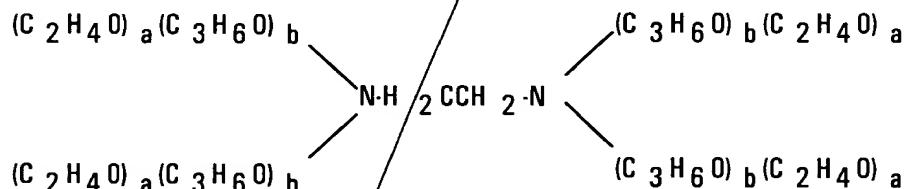
a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

5 b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

10 19. A method of delivering a compound capable of altering nucleic acid sequence function to a human or animal comprising,

20  
25  
30  
35  
40  
45  
50  
55  
60  
65  
70  
75  
80  
85  
90  
95  
100  
105  
110  
115  
120  
125  
130  
135  
140  
145  
150  
155  
160  
165  
170  
175  
180  
185  
190  
195  
200  
205  
210  
215  
220  
225  
230  
235  
240  
245  
250  
255  
260  
265  
270  
275  
280  
285  
290  
295  
300  
305  
310  
315  
320  
325  
330  
335  
340  
345  
350  
355  
360  
365  
370  
375  
380  
385  
390  
395  
400  
405  
410  
415  
420  
425  
430  
435  
440  
445  
450  
455  
460  
465  
470  
475  
480  
485  
490  
495  
500  
505  
510  
515  
520  
525  
530  
535  
540  
545  
550  
555  
560  
565  
570  
575  
580  
585  
590  
595  
600  
605  
610  
615  
620  
625  
630  
635  
640  
645  
650  
655  
660  
665  
670  
675  
680  
685  
690  
695  
700  
705  
710  
715  
720  
725  
730  
735  
740  
745  
750  
755  
760  
765  
770  
775  
780  
785  
790  
795  
800  
805  
810  
815  
820  
825  
830  
835  
840  
845  
850  
855  
860  
865  
870  
875  
880  
885  
890  
895  
900  
905  
910  
915  
920  
925  
930  
935  
940  
945  
950  
955  
960  
965  
970  
975  
980  
985  
990  
995

the step of administering to a human or animal a composition comprising a compound capable of altering nucleic acid sequence function admixed with a block copolymer, wherein the block copolymer has the following formula:



wherein:

20 the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

25 a is a number such that the portion represented by polyoxyethylene constitutes between about 10% to about 40% of the compound by weight; and

30 b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes between about 60% and about 90% of the compound by weight.

20. The composition of Claim 19, wherein:  
the mean aggregate molecular weight of the  
portion of the octablock copolymer represented by  
polyoxypropylene is about 6750 Daltons;

5 a is a number such that the portion represented by  
polyoxyethylene constitutes about 10% of the compound by  
weight; and

10 b is a number such that the polyoxypropylene  
portion of the total molecular weight of the octablock  
copolymer constitutes about 90% of the compound by weight.

21. The composition of Claim 19, wherein:  
the mean aggregate molecular weight of the  
portion of the octablock copolymer represented by  
polyoxypropylene is about 5750 Daltons;

15 a is a number such that the portion represented by  
polyoxyethylene constitutes approximately 10% of the  
compound by weight; and

20 b is a number such that the polyoxypropylene  
portion of the total molecular weight of the octablock  
copolymer constitutes about 90% of the compound by weight.

22. The composition of Claim 19, wherein:  
the mean aggregate molecular weight of the  
portion of the octablock copolymer represented by  
polyoxypropylene is about 5220 Daltons;

25 a is a number such that the portion represented by  
polyoxyethylene constitutes about 10% of the compound by  
weight; and

29  
cont.



b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

5                    23. The method of Claim 19, wherein the compound capable of altering nucleic acid sequence function is selected from genes, oligonucleotides, antisense oligonucleotides, triplex DNA compounds, or ribozymes.

10                   24. The method of Claim 19, further comprising approximately 0.1% to approximately 5% by weight of a surfactant and approximately 0.5% to approximately 5% by volume of an low molecular weight alcohol.

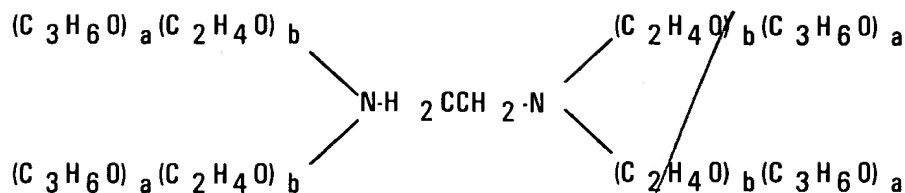
15                   25. The method of Claim 24, wherein the surfactant is Tween 80 and the alcohol is ethanol.

20                   26. The method of Claim 19, further comprising an expression vector, wherein the compound capable of altering nucleic acid sequence function is a nucleic acid sequence contained in the expression vector, and the expression vector is capable of expressing the nucleic acid sequence.

25                   ~~27.~~ A method of delivering a compound capable of altering nucleic acid sequence function to a human or animal comprising,

30                   the step of administering to a human or animal a composition comprising a compound capable of altering nucleic acid sequence function admixed with a block copolymer, wherein the block copolymer has the following formula:

99  
cent.



wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes between about 10% to about 40% of the compound by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes between about 60% and about 90% of the compound by weight.

28. The composition of Claim 27, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 6750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

29. The composition of Claim 27, wherein:

5  
29  
cont.

10

15

20

25

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5750 Daltons;

5 a is a number such that the portion represented by polyoxyethylene constitutes approximately 10% of the compound by weight; and

10 b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

99  
cont.

30. The composition of Claim 27, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5220 Daltons;

15 a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

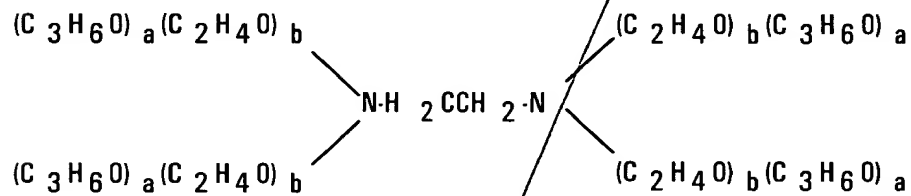
20 b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

25 31. The method of Claim 27, wherein the compound capable of altering nucleic acid sequence function is selected from genes, oligonucleotides, antisense oligonucleotides, triplex DNA compounds, or ribozymes.

30 32. The method of Claim 27, further comprising approximately 0.1% to approximately 5% by weight of a surfactant and approximately 0.5% to approximately 5% by volume of a low molecular weight alcohol.

33. A method of delivering a compound capable of altering nucleic acid sequence function to a human or animal comprising,

the step of administering to a human or animal a composition comprising a compound capable of altering nucleic acid sequence function admixed with a block copolymer, wherein the block copolymer has the following formula:



wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes between about 5% to about 20% of the compound by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes between about 80% and about 95% of the compound by weight.

34. The composition of Claim 33, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 6750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

5 b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

10 35. The composition of Claim 33, wherein:  
the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5750 Daltons;

15 a is a number such that the portion represented by polyoxyethylene constitutes approximately 10% of the compound by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

20 36. The composition of Claim 33, wherein:  
the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5220 Daltons;

25 a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

9a cont.

37.

~~33.~~

30.  
~~34.~~

~~34.~~

29<sup>5</sup>  
card

10

add a9

[illegible]